

Coherent, Comprehensive, and Coordinated Approach to Economic Policy

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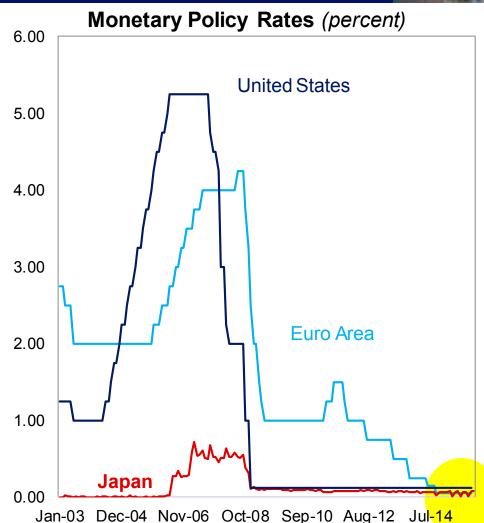
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Motivation



2003 ECB Evaluation of its Monetary Policy Strategy

"As regards the risk of deflation for the euro area as a whole, the risk that the monetary authority would have to lower interest rates to zero and then be effectively constrained by the zero lower bound does not seem to be substantial for inflation objectives below but close to 2% per annum."



Note: Euro Area policy rate: Main Refinancing Operations Minimum Bid Rate. Japan policy rate: Uncollateralized Overnight Call Rate. United States policy rate: Fed Funds Target Rate.

Source: Haver Analytics. Monthly data. Latest observation October 2015 for the Euro Area and United States, November 2015 for Japan.

Outline of the Presentation



- 1. Risks in the Macroeconomic Landscape
- 2. Shocks and Propagation at the Zero Lower Bound
- 3. Coherent, Comprehensive, and Coordinated Approach to Economic Policy
- 4. Japan
- 5. Conclusion

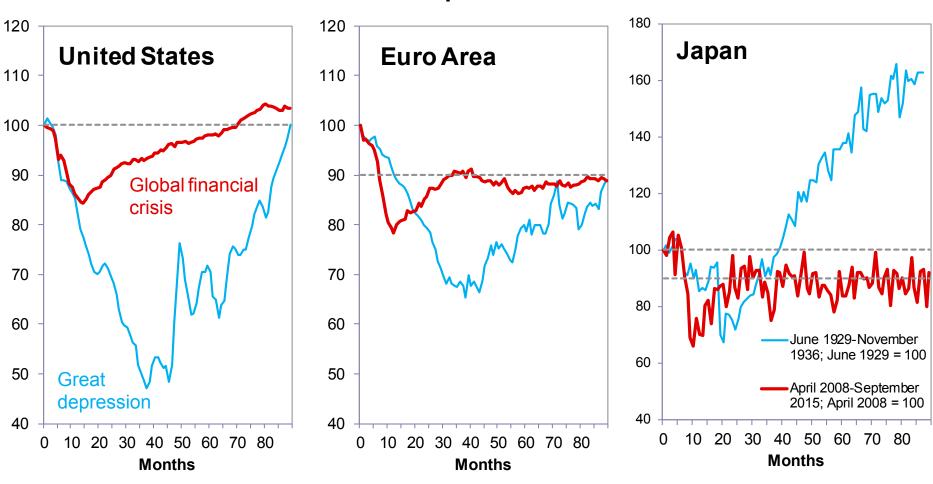


1. Risks in the Macroeconomic Landscape

Economic activity: Weak Recovery



Industrial production index



Note: For the Euro Area, the 1929 to 1936 series corresponds to the average across France, Germany, and Italy.

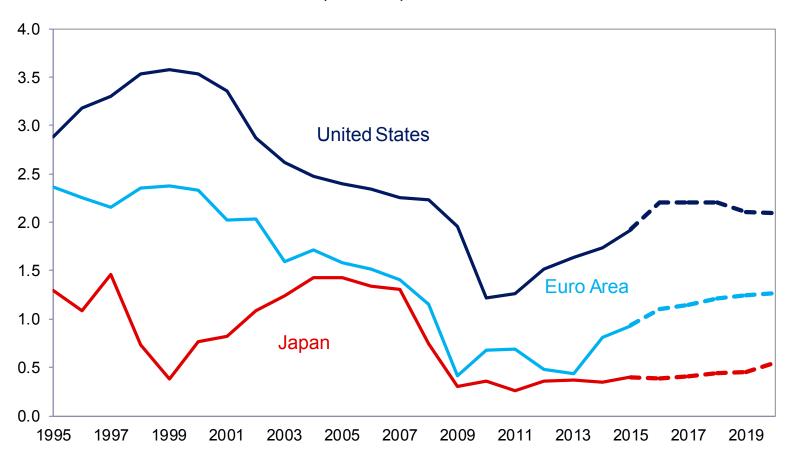
Source: Eichengreen, B. and K.H. O'Rourke (2010) "What do the new data tell us?" VoxEU.org, 08 March; League of Nations Statistical Yearbooks 1934-38 made digitally available by Northwestern University Library at http://digital.library.northwestern.edu/league/stat.html; Federal Reserve Bank of St. Louis; Haver Analytics and IMF staff estimates. Latest observation September 2015.

Economic activity: Low growth expectations



Potential GDP Growth, 1995–2020

(Percent)

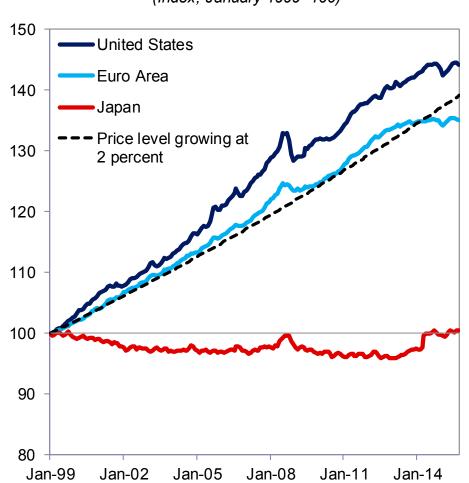


Source: IMF World Economic Outlook October 2015.

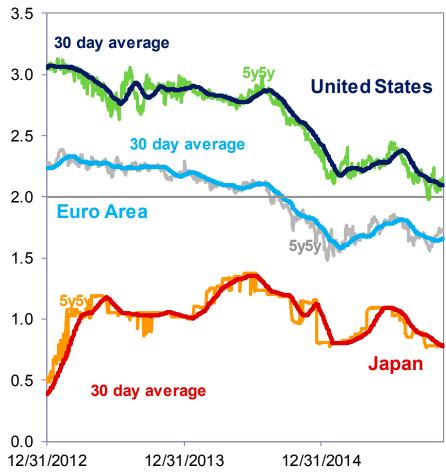
Low inflation for too long



Price Level Path, January 1999–October 2015 (Index, January 1999=100)



5y5y Inflation Linked Swap Rate,Daily rates, January 2013 to November 2015 (*Percent*)

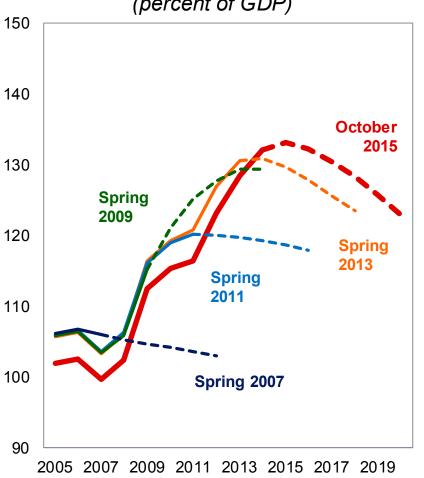


Source: Haver Analytics. Monthly data. Latest observation September 2015 for Japan, October 2015 for the United States and Euro Area.

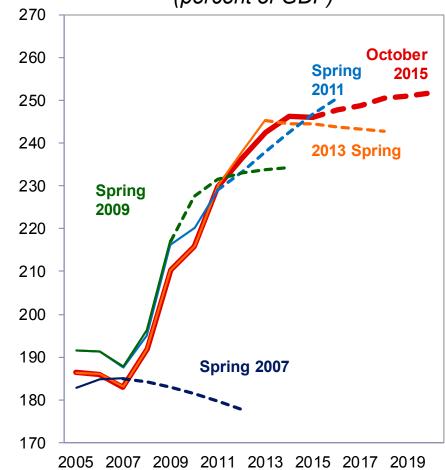
Low nominal growth is adversely affecting public finances



Italy: Revisions to General
Government Gross Debt, 2005-2020
(percent of GDP)



Japan: Revisions to General Government Gross Debt, 2005-2020 (percent of GDP)



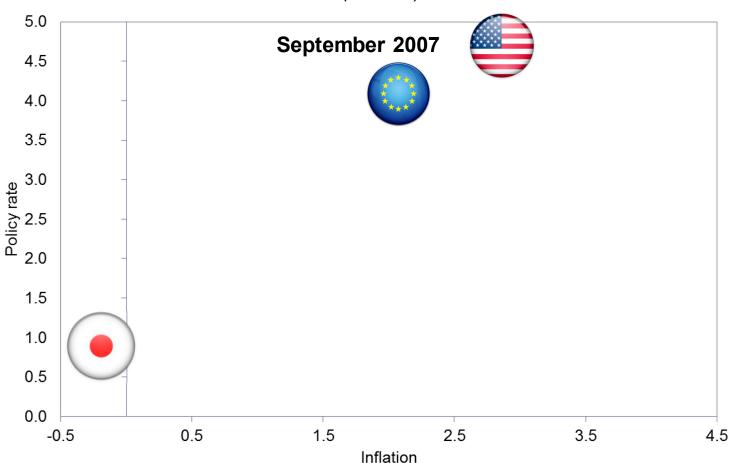


2. Shocks and Propagation at the Zero Lower Bound



Inflation and Monetary Policy Rates

(Percent)

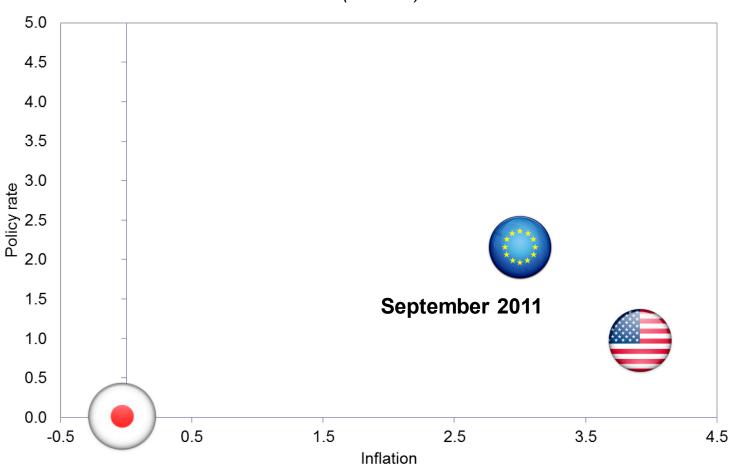


Note: Euro Area policy rate: Main Refinancing Operations Minimum Bid Rate. Japan policy rate: Uncollateralized Overnight Call Rate. United States policy rate: Fed Funds Target Rate.



Inflation and Monetary Policy Rates

(Percent)

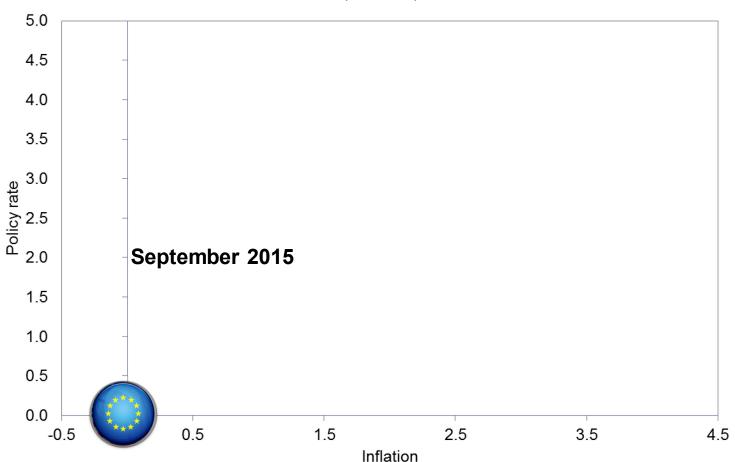


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Inflation and Monetary Policy Rates

(Percent)

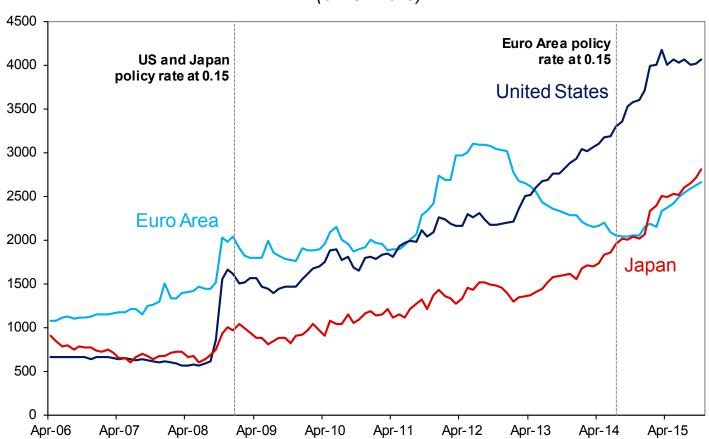


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Central bank total assets

(billion Euro)



Note: Euro Area policy rate: Main Refinancing Operations Minimum Bid Rate. Japan policy rate: Uncollateralized Overnight Call Rate. United States policy rate: Fed Funds Target Rate.

In normal times, longer-term market interest rates and exchange rates act as shock absorbers



$$\downarrow \sum_{j=0}^{k} i_{t+j} = [e_{t+k} - \uparrow e_{t}] + \sum_{j=0}^{k} \{i_{t+j}^* + \delta_{t+j}^*\}$$

$$\downarrow \sum_{j=0}^{k} r_{t+j} = [q_{t+k} - \uparrow q_t] + \sum_{j=0}^{k} \{r_{t+j}^* + \delta_{t+j}^*\}$$

q: real exchange rate; e: nominal exchange rate; i: nominal interest rate; r: real interest rate; δ: risk premium

At the ZLB, longer-term market interest rates and exchange rates act as shock amplifiers



$$\uparrow r_{t} = i_{t} - \downarrow E_{t} \pi_{t+1}$$

$$\uparrow \sum_{j=0}^{k} r_{t+j} = [q_{t+k} - \downarrow q_{t}] + \sum_{j=0}^{k} \{r_{t+j}^{*} + \delta_{t+j}^{*}\}$$

$$\downarrow p_{t} \Rightarrow \downarrow p_{t+k}$$

$$q_{t+k} = \downarrow e_{t+k} - \downarrow p_{t+k} + p_{t+k}^{*}$$

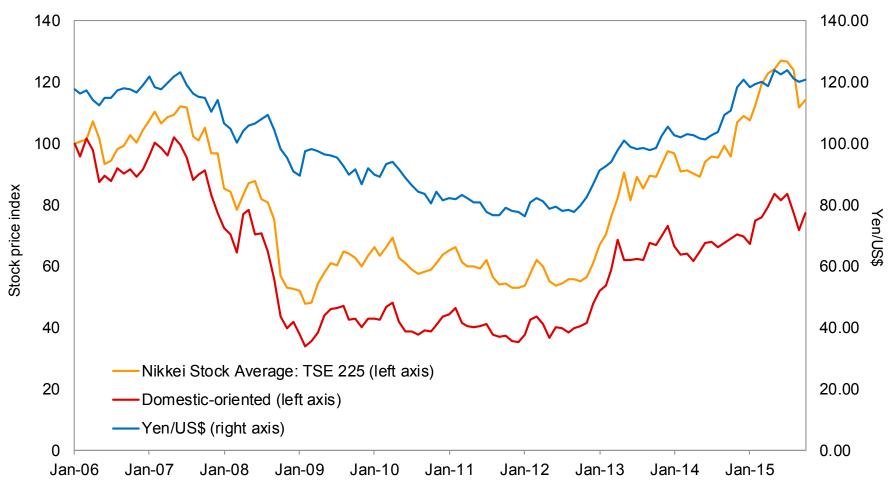
$$\sum_{i=0}^{k} i_{t+j} = [\downarrow e_{t+k} - \downarrow e_{t}] + \sum_{i=0}^{k} \{i_{t+j}^{*} + \delta_{t+j}^{*}\}$$

p: domestic price level; p*: foreign price level; q: real exchange rate; e: nominal exchange rate; i: nominal interest rate; r: real interest rate; δ: risk premium

Example of Exchange Rates as Shock Amplifiers: Japanese Yen Appreciates on Bad News (Decline in the Nikkei Index)



Japan: Stock Market Indices and Exchange Rate



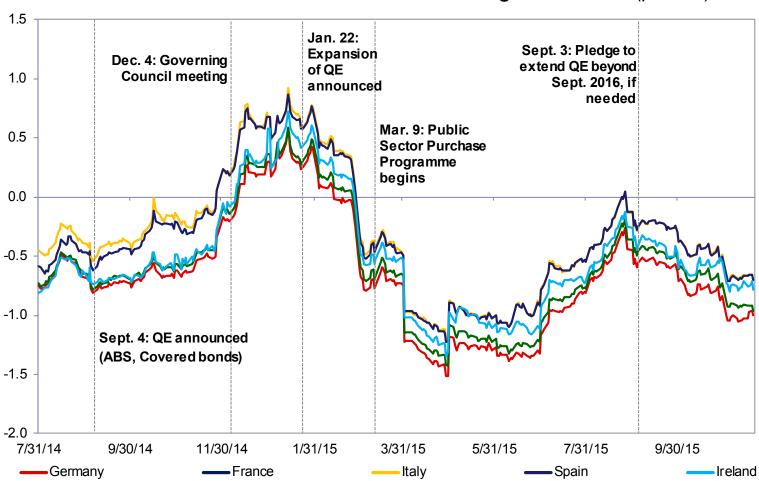
Note: Jan 2006=100; Domestic-oriented stock market index: average of real estate, wholesale trade, retail trade, banks, insurance and services.

Source: Haver Analytics and IMF Staff Calculations. Latest observation October 2015.

Communication at the ZLB



Selected Euro Area Countries: Real One-Year Sovereign Bond Yields (percent)



Source: Bloomberg and IMF Staff calculation. Latest observation November 20, 2015. Sovereign bond yield minus inflation swap rate at the corresponding maturity.



3. Coherent, Comprehensive, and Coordinated Approach to Economic Policy

Can the ZLB be removed?



- Options to remove the ZLB
 - Cashless economy (Wicksell 1935, 1936; Woodford, 2003)
 - Stamped currency (Keynes, 1936; Goodfriend, 2000)
 - Electronic money (Buiter 2009; Agarwal and Kimball, 2015)

Challenges associated with UMP and structural reforms



- With interest rate policy constrained, unconventional monetary policy is followed to achieve price stability
 - But the impact of UMP is more uncertain than conventional policy (regarding its effects on broader financial conditions, economic activity, and inflation)
- Structural reforms can improve long-run prospects for employment and output
 - But in some cases these have short-term costs (October 2014 Fiscal Monitor)
 - They are slow to implement, or slow to gain traction
 - May be deflationary (Eggertsson, 2013)

Fiscal policy can support monetary and structural policy

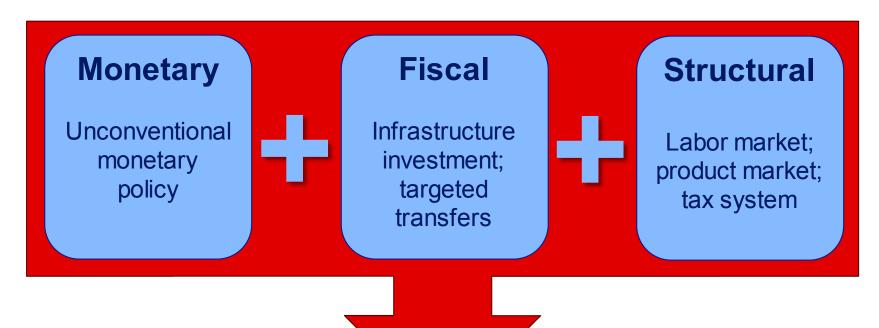


In some circumstances, support from fiscal policy is needed, and can be especially effective at the ZLB

- 1. Fiscal policy can serve as a backup to monetary policy
- Makes demand management policies credible and effective
- Larger automatic stabilizers can reduce the likelihood of becoming constrained by the zero lower bound
- 2. Structural fiscal reforms can make tax and expenditure policies more growth-friendly
- 3. Fiscal policy can encourage structural reform
- Offsetting potential short term economic costs of reform
- Mitigating the distributive effects of structural reform
- Supporting demand to avoid deflationary pressures

Coherent, Comprehensive, and Coordinated Approach to Economic Policy





Sustained and inclusive economic growth CPI inflation at 2% over the medium term Jobs creation



4. Japan

Japan: 3-C Approach based on 4 Legs



Challenges: Weak growth prospects, vulnerable to deflationary shocks, high public debt, declining population

Need for a Coherent, Comprehensive, and Coordinated policy package based on 4 legs:

1: *Monetary policy framework* to improve policy effectiveness and support more consistent policy communications

2: Fiscal policy framework that provides demand support while managing public sector balance sheet risks

3: *Incomes policy* to support the monetary policy framework and guard against deflation

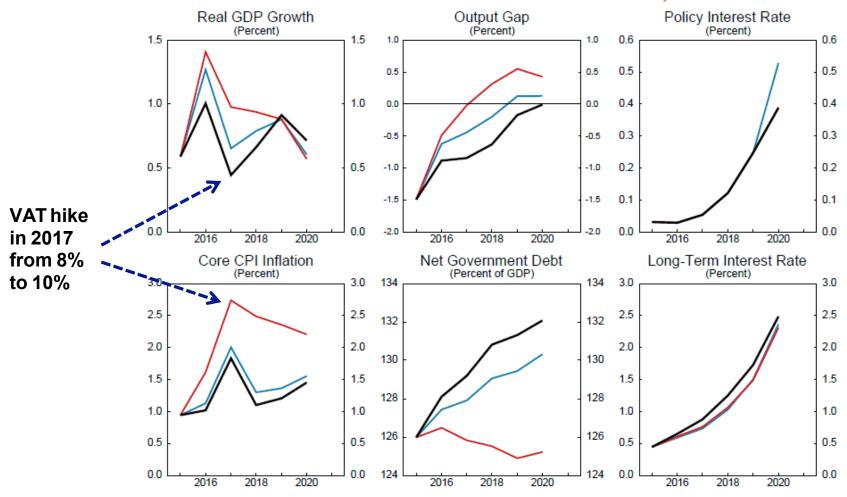
4: Structural reforms to raise potential output.

Japan: Simulations for a 3-C Policy Package



Japan Quantitative Easing, Fiscal Transfers and Incomes Policy Baseline

Quantitative Easing that is Credible and Effective QE in tandem with Fiscal Transfers and Incomes Policy

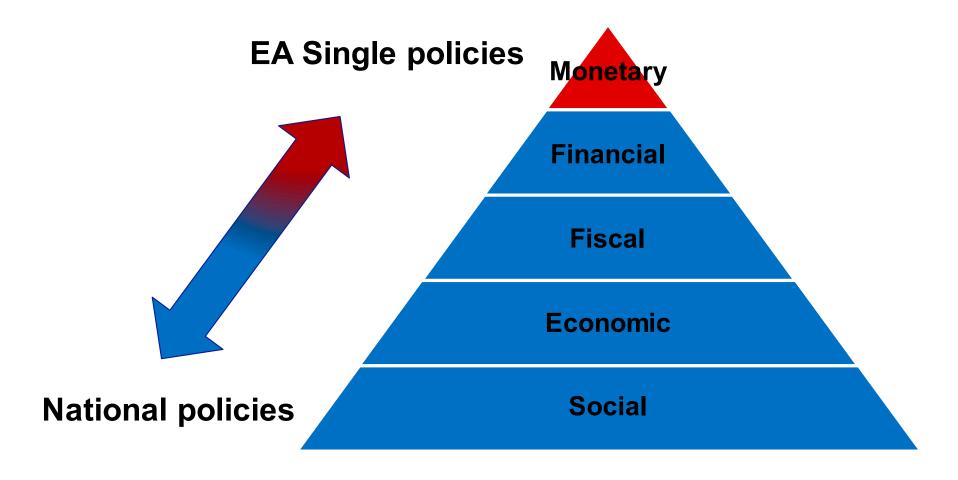




5. Conclusion

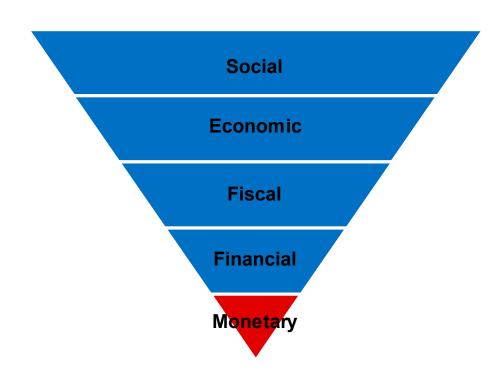
Single vs National Policies in the Euro Area





Monetary policy is overburdened





Monetary policy is taking on most of the burden to support demand.

What fiscal policies can be put in place to support demand and long-run prospects?

What are the minimum fiscal requirements for sustainability of the euro area?

What should be the priorities?

Conclusion



- Macroeconomic stabilization policies need to be accompanied with structural policies to improve competitiveness and increase potential growth.
- Demand management policies can support the implementation of structural reform policies, by offsetting their potential short term economic costs or mitigating their distributive effects.



Thank You!

References



- Agarwal, R. and M. Kimball, 2015, "Breaking Through the Zero Lower Bound", IMF Working Paper No. 15/224.
- Andrle, M., P. Blagrave, P. Espaillat, K. Honjo, B. Hunt, M. Kortelainen, R. Lalonde, D. Laxton, E. Mavroeidi, D. Muir, S. Mursula, and S. Snudden, 2015, "The Flexible System of Global Models FSGM", *IMF Working Paper* No. 15/64.
- Buiter, W. H., 2009, "Negative Nominal Interest Rates: Three Ways to Overcome the Zero Lower Bound", *NBER Working Paper* No. 15118.
- Eggertsson, G., A. Ferrero, A. Raffo, 2013, "Can Structural Reforms Help Europe?" *International Finance Discussion Papers* Number 1092.
- Keynes, J. M. (1936): General Theory of Employment, Interest, and Money, London: Macmillan and Co. Limited.
- Goodfriend, Marvin, 2000, "Overcoming the Zero Bound on Interest Rate Policy," *Journal of Money, Credit, and Banking*, Vol. 32(4)/2000, S. 1007–1035.
- International Monetary Fund, October 2014, Fiscal Monitor: Back to work: How Fiscal Policy Can Help.
- Wicksell, K., 1935, Lectures on Political Economy, London: Routledge & Kegan Paul Ltd.
- Wicksell, K., 1936, *Interest and Prices: A Study of Causes Regulating the Value of Money*, London: Macmillan and Co. Limited.
- Woodford, M., 2003, *Interest and Prices; Foundations of a Theory of Monetary Policy*, Princeton University Press, Princeton and Oxford.